

PWS-440

3.7" Ultra Rugged Handheld Terminal



Features

- Marvell PXA310 806MHz; Supports Windows CE6.0
- 3.7" VGA TFT LCD transfective technology
- IP67 rating guarantees total protection against dirt, dust and water
- Certified by MIL-STD-810G and MIL-STD-461F
- Standard 5-way controller and 4 function keys for one-hand operation
- High capacity Li-ion battery provides 6 hours of continuous operation
- Field navigation application with HSDPA (3.5 G), 802.11b/g, Bluetooth and GPS



Introduction

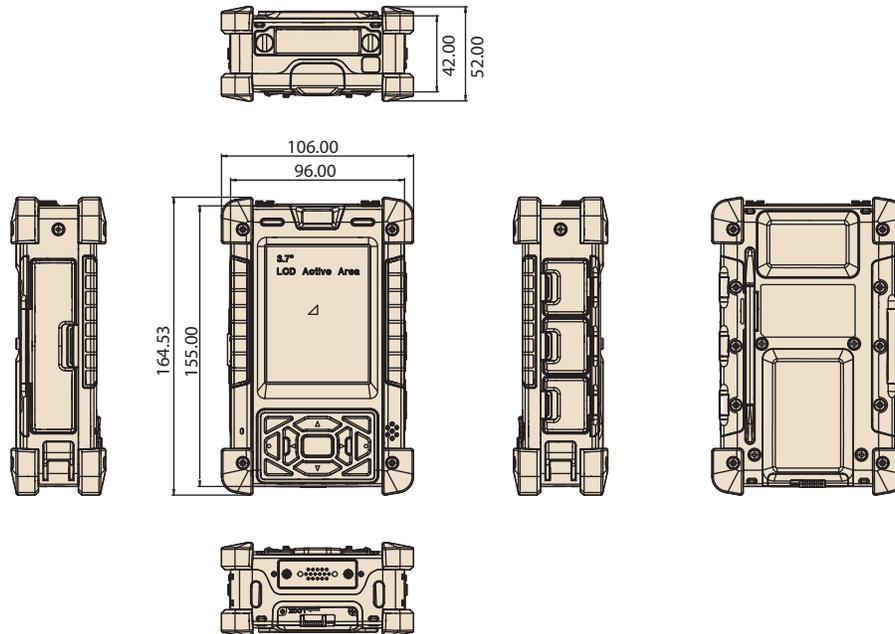
The PWS-440 is an ultra rugged portable computer featuring a 3.7" transfective VGA TFT LCD display and Marvell PXA310 806MHz processor. With GPS, HSDPA (3.5G), Wi-Fi and built-in Bluetooth, PWS-440 provides a fully-functional communication device for any outdoor application. Certified to meet standard military grade MIL-STD-810G and MIL-STD-461F, PWS-440 is constructed with an IP67 rating guaranteeing total protection against dirt, dust and water. Driven by a high capacity battery, PWS-440 handles a 5-foot drop, and operates in an extreme range of temperatures, providing mobility in any harsh environment. Advantech's PWS-440 is a strong device for reliable mobile communications in any environment.

Specifications

| | | | |
|----------------------|---------------------------------|---|--|
| Processor | CPU | Marvell PXA310 806 MHz | |
| OS | | Windows CE 6.0 | |
| Memory | | 256 MB DDR Mobile RAM on board (default); Up to 512MB DDR (by project-based) | |
| Storage | | 1 GB NAND Flash on board | |
| Audio System | | Build-in Internal microphone and one speaker 0.5W | |
| Display | Size/ Type | 3.7" transfective TFT LCD | |
| | Max. Resolution | VGA 480 x 640 | |
| | Brightness (cd/m ²) | 320 cd/m ² LED back light | |
| Touch Panel | | 4-wire resistive touch panel | |
| Application Buttons | | 1 x power on/suspend button | 1 x HW reset key located right side door |
| | | Navigation key and four function keys | 1 x button for backlight on/off (using power on/ suspend button) |
| I/O Port | | 2 x USB type A connectors, USB1.1 host | 1 x RJ-45 for 10/100M Ethernet |
| | | 1 x USB mini type B connector, USB1.1 Client | 1 x stereo headphone jack |
| | | 1 x RS-232 | 1 x microphone jack |
| | | 1x RS-232 (default) 422/485 (By project-based) | 1 x DC-In connector |
| Communication | WLAN | 802.11b/g WLAN module build in | |
| | Bluetooth | Bluetooth class 2, v2.1 built-in with integral antenna | |
| | GPS | SiRF Star IV high performance GPS chipset | |
| | WWAN | Cinterion PH8 HSPA+ WWAN module with high performance external antenna (optional) | |
| Power | Battery | Rechargeable Li-ion smart battery, 7.4 V, 1880 mAh, 2S1P | |
| | DC input | 12V ± 5% | |
| Environment | Operating Temperature | -20° C ~ 60° C | |
| | Storage Temperature | -40° C ~ 70° C | |
| | Operating Humidity | 5% ~ 95% | |
| Rugged Certification | | IP67 | MIL-STD-461F |
| | | 5 feet drop to concrete | MIL-STD-810G |
| Certifications | | CE, FCC, CCC | |
| Dimensions & Weight | | 155 x 96 x 42 mm, 650 g | |

Dimensions

Unit: mm



I/O Connectors



- 1. Function buttons
- 2. Suspend button
- 3. Navigation keys
- 4. FN button
- 5. Enter keys
- 6. Docking/cradle connector
- 7. Battery pack latch

- 9. RS 232
- 10. USB type A (USB 1.1 Host)
- 11. RS 232 (RS422/RS485)
- 12. RJ-45 Port
- 13. Handphone, microphone & micro SD slot
- 14. DC in & min USB type (USB 1.1 slave)

Ordering Information

| Part Number | Description |
|----------------|---|
| PWS-440-6E000E | PWS-440 with WLAN/BT/GPS/WIN CE6.0 |
| PWS-440-6E003E | PWS-440 with WLAN/BT/GPS/3.5G/WIN CE6.0 |
| PWS-440-6M000E | PWS-440 with WLAN/BT/GPS/WIN Embedded Handheld 6.5 |
| PWS-440-6M003E | PWS-440 with WLAN/BT/GPS/3.5G/WIN Embedded Handheld 6.5 |

Accessories

| Part Number | Description |
|-------------------|--|
| P37B-91-P37BB-C01 | Accessory P37B 4IN1 battery charger |
| P37B-91-P37BC-R02 | Accessory P37B cradle |
| P37B-93-P37B4-001 | Accessory P37B battery pack 2S1P 1880MAH |
| 1757003914 | Adaptor AC-DC 12V/4A 100-240V |

Note: The package are include PWS-440 device, power adapter, and hanstrap